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MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

PSP-1000 SERIES

Jameco Part Number 217357 (PSP-1000-24)

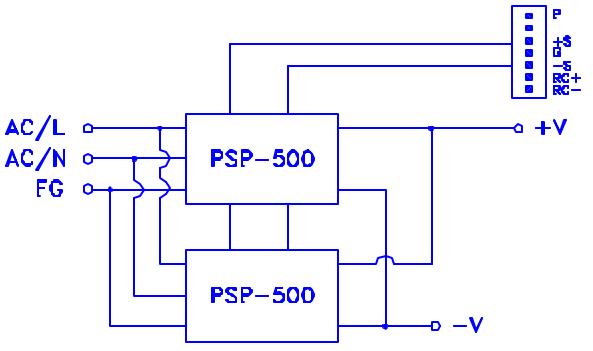
.LOW COST, HIGH RELIABILITY
.100% FULL LOAD BURN-IN TEST
.BUILT IN EMI FILTER, CURRENT SHARING CIRCUIT
.105◦C OUTPUT CAPACITOR
.BUILT IN REMOTE CONTROL, REMOTE SENSE
.BUILT IN PFC CIRCUIT PFC>=0.95,COMPLIES WITH EN61000-3-2
.SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE, OVER TEMP. PROTECTED

MODEL / SPECIFICATION	PSP-1000 -5	PSP-1000 -12	PSP-1000 -13.5	PSP-1000 -15	PSP-1000 -24	PSP-1000 -27	PSP-1000 -48
DC OUTPUT VOLTAGE	5V	12V	13.5V	15V	24V	27V	48V
OUTPUT V. TOLERANCE	±2%	±1%	±1%	±1%	±1%	±1%	±1%
OUTPUT RATED CURRENT	145A	75A	67A	60A	37.6A	33.6A	19A
OUTPUT CURRENT RANGE	0-145A	0-75A	0-67A	0-60A	0-37.6A	0-33.6A	0-19A
RIPPLE & NOISE	100mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p
LINE REGULATION	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
LOAD REGULATION	±2%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
DC OUTPUT POWER	725W	900W	904.5W	900W	902.4W	907.2W	912W
PEAK OUTPUT POWER	800W	1000W	1000W	1000W	1000W	1000W	1000W
EFFICIENCY	76%	82%	82%	82%	84%	84%	86%
DC VOLTAGE ADJ.	4.75-5.5V	10-13.2V	12-15V	13.5-18V	20-26.4V	24-30V	41-56V
INPUT VOLTAGE RANGE	90~264VAC 47~63Hz; 127~370VDC						
AC CURRENT	14A/115V 7A/230V						
POWER FACTOR	0.95/230VAC						
INRUSH CURRENT	35A/115V 70A/230V						
LEAKAGE CURRENT	<2mA/240VAC						
OVERLOAD PROTECTION	115%~140% TYPE:CONSTANT CURRENT LIMITING RESET:AUTO RECOVERY						
OVER VOLTAGE PROTECTION	5.75~6.75	13.8~16.2V	15.5~18.2V	18~21V	27.6~32.4V	31~36.5V	57.6~67.2V
OVER TEMP.PROTECTION	RTH2>=95◦C OUTPUT SHUTDOWN						
REMOTE CONTROL	RC+/RC-: 0~0.8V=POWER ON; 4~10V=POWER OFF SINK CURRENT 8~20mA						
TEMP. COEFFICIENT	±0.03% / ◦C (0~50◦C)						
SETUP, RISE, HOLD UP TIME	1.5s, 50ms, 15ms						
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES						
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms						
WORKING TEMP., HUMIDITY	-10◦C~+60◦C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH						
STORAGE TEMP., HUMIDITY	-20◦C~+85◦C, 10%~95% RH						
DIMENSION	278*129*127mm						
WEIGHT	4.7 Kgs						
SAFETY STANDARDS	UL1950 APPROVED						
EMC STANDARDS	CISPR22, EN61000-3-2, EN61000-4-2,3,4,5,6,8,11 VERIFICATION						

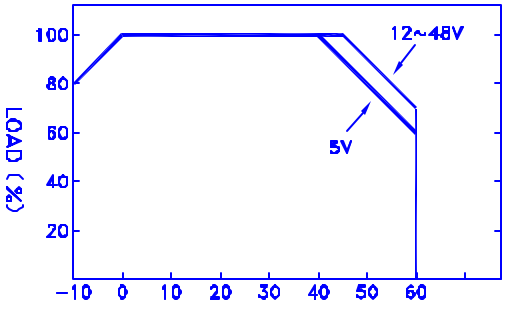
NOTE :
1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
2.TOLERANCE GINCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5.LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.
6.REFER TO OUTPUT DERATING CURVE VS INPUT VOLTAGE.
7.PEAK OUTPUT POWER LASTING <30 SECONDS WITH A MAX. 10% DUTY CYCLE.

2002-07-15

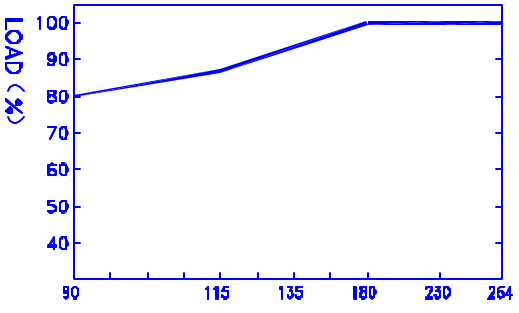
BLOCK DIAGRAM



OUTPUT DERATING VS Ta

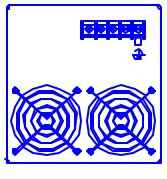


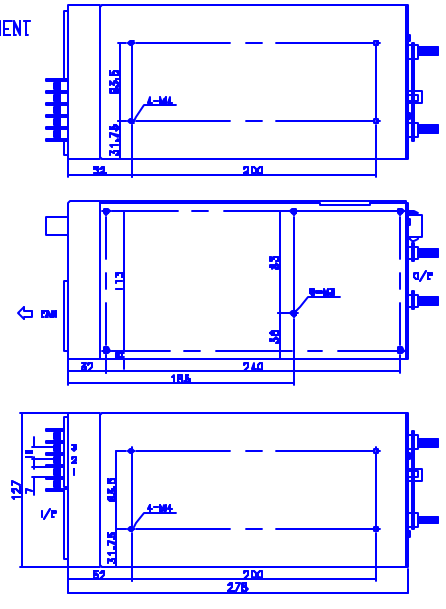
OUTPUT DERATING VS INPUT VOLTAGE



DIMENSION (mm)

- CASE : 924
- I/P TERMINAL PIN NO. ASSIGNMENT
  - PIN 1,2 : AC INPUT
  - PIN 3 : FG ⏚
- O/P TERMINAL PIN NO. ASSIGNMENT
  - PIN 1,3: DC OUTPUT +V
  - PIN 2,4: DC OUTPUT -V





- CONTROL PIN NO. ASSIGNMENT
  - Molex 5559-NP Uses 5558 Male Crimp Terminal
  - PIN 1 : P(CURRENT SHARE)
  - PIN 2 : -S
  - PIN 3 : G
  - PIN 4 : RC-
  - PIN 5 : NC
  - PIN 6 : NC
  - PIN 7 : +S
  - PIN 8 : RC+
- MATING CONNECTOR
  - Molex 5557-NR Uses 5556 Female Crimp Terminal Receptacle